

Serial No. 10/509,112

GRAMMENOS et al.

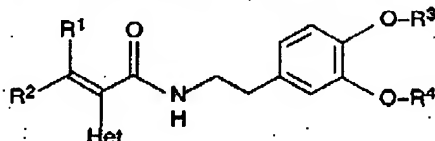
PF 53376

APPENDIX I:

CLAIM AMENDMENTS:

Amend Claims 1, 2 and 7 to 10, and enter new Claims 13 to 18, as indicated in the following listing of the claims:

1. (currently amended) Phenethylacrylamides of the formula I



in which the substituents R¹, R², R³ and R⁴ have the following meanings:

- R¹ is halogen, C₁-C₄-alkyl, C₁-C₄-alkoxy, C₃-C₁₀-cycloalkyl, C₁-C₄-haloalkoxy or C₁-C₄-haloalkyl;
- R² is hydrogen;
- R³ is C₁-C₄-alkyl, C₁-C₄-haloalkyl, propargyl, C₃-C₄-alkenyl or -H₂C-C≡C-C(R^a, R^b)-R^c, where R^a, R^b independently of one another are hydrogen or methyl and R^c is hydrogen or C₁-C₄-alkyl;
- R⁴ is methyl or C₁-haloalkyl; and
- Het is a 5- or 6-membered heteroaromatic ring which may contain a fused 5- or 6-membered carbocycle and which is selected from among heteroaromatic rings containing 1, 2, 3 or 4 nitrogen atoms as ring members, heteroaromatic rings which contain 1 or 2 nitrogen atoms and 1 or 2 further heteroatoms selected from among oxygen or sulfur as ring members, and heteroaromatic rings which have 1 or 2 heteroatoms selected from among oxygen and sulfur as ring members, Het being unsubstituted or it being possible for Het to contain 1, 2 or 3 substituents S selected from among halogen, C₁-C₄-alkyl, C₁-C₄-haloalkoxy, C₁-C₄-haloalkyl and C₁-C₄-alkoxy.
2. (currently amended) A phenethylacrylamide of the formula I as claimed in claim 1, wherein R¹ is C₁-C₄-alkyl or C₃-C₆-cycloalkyl, ~~in particular ethyl, isopropyl, tert-butyl or cyclopropyl.~~
3. (previously presented) A phenethylacrylamide of the formula I as claimed in claim 1, wherein Het is selected from among pyridyl, pyrimidinyl, pyrazinyl, pyrrolyl, thienyl, furanyl, pyrazolyl, imidazolyl, oxazolyl, isoxazolyl, thiazolyl and isothiazolyl.

060801

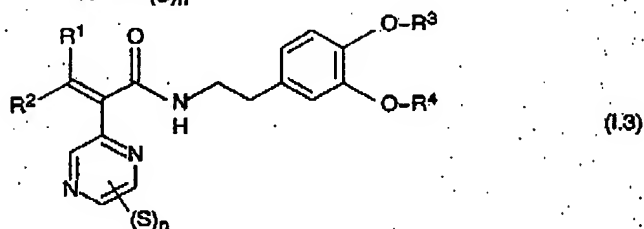
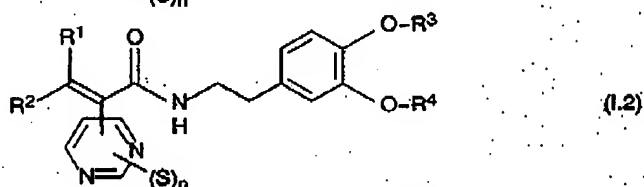
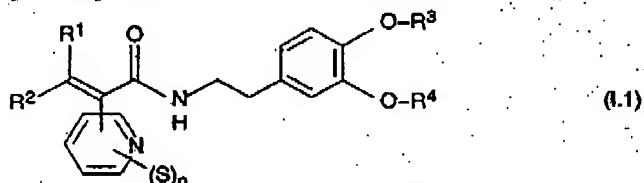
- 5 -

Serial No. 10/509,112

GRAMMENOS et al.

PF 53376

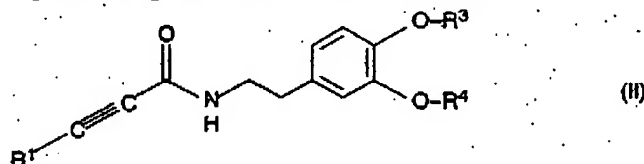
4. (previously presented) A phenethylacrylamide of the formula I as claimed in claim 1, wherein Het contains one or two substituents S which are bonded to those ring atoms which are not adjacent to the linkage site forming the double bond.
5. (original) A phenethylacrylamide of the formulae I.1, I.2 and I.3



in which the substituents S, R¹, R², R³ and R⁴ have the abovementioned meanings and n is 1 or 2, and S is not bonded in the ortho position relative to the linkage site.

6. (previously presented) A process for the preparation of a phenethylacrylamide of the formula I as claimed in claim 1, wherein R² is hydrogen and R¹ is hydrogen, C₁-C₄-alkyl, C₃-C₈-cycloalkyl or C₁-C₄-haloalkyl, and Het, R³ and R⁴ have the abovementioned meanings, comprising the following steps:

a) reaction of a phenethylamide of the formula II,

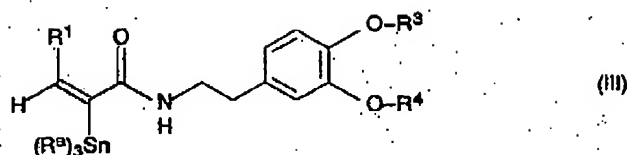


in which the substituents R¹, R³ and R⁴ have the abovementioned meanings, with a trialkylstannane (R^a)₃SnH, wherein R^a is alkyl resulting in a compound of the formula III

Serial No. 10/509,112

GRAMMENOS et al.

PF 53376

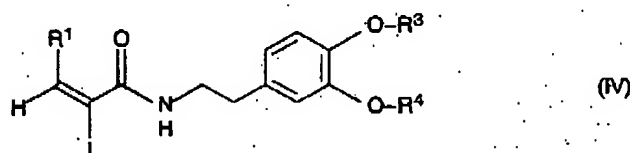


wherein the substituents R^a , R^1 , R^3 and R^4 have the abovementioned meanings, and

- b) reaction of the compound III obtained in step a) with a compound Het-Hal, wherein Hal is bromine or iodine and Het has the meaning given in claim 1, in the presence of catalytically active amounts of a transition metal compound of a group VIII metal;

or

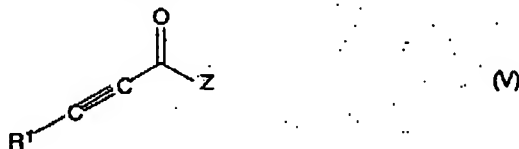
- a') reaction of a compound of the formula II with at least stoichiometric amounts of iodine, resulting in a compound of the formula IV



wherein the substituents R^1 , R^3 and R^4 have the abovementioned meanings, and

- b') reaction of the compound IV obtained in step a') with a stannane of the formula $(R^3)_3Sn-Het$, wherein Het has the meaning stated in claim 1, in the presence of catalytically active amounts of a transition metal compound of a group VIII metal.

7. (currently amended) A process as claimed in claim 6, additionally comprising the preparation of the phenethylamide of the formula II, wherein a propiolic acid compound of the formula V

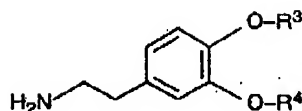


wherein R^1 ~~has the abovementioned meaning~~ is hydrogen, C_1 - C_4 -alkyl, C_3 - C_8 -cycloalkyl or C_1 - C_4 -haloalkyl, and Z is halogen or OH, is reacted in a manner known per se with a phenethylamine of the general formula VI

Serial No. 10/509,112

GRAMMENOS et al.

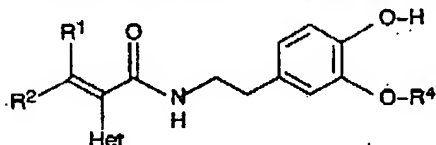
PF 53376



(VI)

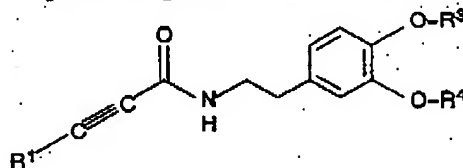
wherein R^3 and R^4 have the abovementioned meanings.

8. (currently amended) A process for the preparation of a phenethylacrylamide as claimed in claim 1 of the formula I, wherein a phenethylacrylamide of the formula I where $R^3 = H$:

(I ($R^3 = H$))

wherein Het, R^1 , R^2 and R^4 have the abovementioned meanings, is reacted with a compound of the formula R^3-Y , wherein R^3 has the abovementioned meaning and Y is a nucleophilically displaceable leaving group.

9. (currently amended) A phenethylamide of the formula II'



(II')

wherein the substituents

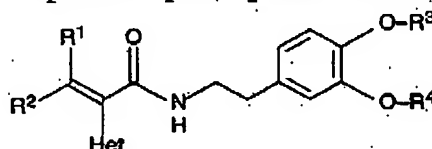
R^1 is halogen, C_1-C_4 -alkyl, C_1-C_4 -alkoxy, C_3-C_{10} -cycloalkyl, or C_1-C_4 -haloalkyl; and

R^4 is methyl or C_1 -haloalkyl; and

have the abovementioned meanings,

$R^{3'}$ has the meanings stated for R^3 is C_1-C_4 -alkyl, C_1-C_4 -haloalkyl, propargyl, C_3-C_4 -alkenyl or $-H_2C-C\equiv C-C(R^a, R^b)-R^c$, where R^a , R^b independently of one another are hydrogen or methyl and R^c is hydrogen or C_1-C_4 -alkyl; or $R^{3'}$ is hydrogen or an OH protecting group.

10. (currently amended) A phenethylacrylamide of the formula I':



(I')

wherein Het, R^1 , R^2 and R^4 have the abovementioned meanings

060801

- 8 -

Serial No. 10/509,112

GRAMMENOS et al.

PF 53376

R¹ is halogen, C₁-C₄-alkyl, C₁-C₄-alkoxy, C₃-C₁₀-cycloalkyl, or C₁-C₄-haloalkyl;

R² is hydrogen;

R⁴ is methyl or C₁-haloalkyl;

Het is a 5- or 6-membered heteroaromatic ring which may contain a fused 5- or 6-membered carbocycle and which is selected from among heteroaromatic rings containing 1, 2, 3 or 4 nitrogen atoms as ring members, heteroaromatic rings which contain 1 or 2 nitrogen atoms and 1 or 2 further heteroatoms selected from among oxygen or sulfur as ring members, and heteroaromatic rings which have 1 or 2 heteroatoms selected from among oxygen and sulfur as ring members, Het being unsubstituted or it being possible for Het to contain 1, 2 or 3 substituents S selected from among halogen, C₁-C₄-alkyl, C₁-C₄-haloalkoxy, C₁-C₄-haloalkyl and C₁-C₄-alkoxy; and

R^{3'} is hydrogen or an OH protecting group.

11. (previously presented) A composition for controlling phytopathogenic harmful fungi comprising a solid or liquid carrier and a compound of the formula I as claimed in claim 1.
12. (previously presented) A method of controlling phytopathogenic harmful fungi, which comprises treating the fungi or the materials, plants, the soil or seed to be protected from fungal infection with an effective amount of a compound of the formula I as claimed in claim 1.
13. (new) The phenethylacrylamide of the formula I as claimed in claim 1, wherein R¹ is C₁-C₄-alkyl, C₃-C₁₀-cycloalkyl, or C₁-C₄-haloalkyl.
14. (new) A phenethylacrylamide as claimed in claim 2, wherein R¹ is ethyl, isopropyl, tert-butyl or cyclopropyl.
15. (new) The process of claim 6, wherein R¹ is C₁-C₄-alkyl, C₃-C₁₀-cycloalkyl, or C₁-C₄-haloalkyl.
16. (new) The process of claim 7, wherein R¹ is C₁-C₄-alkyl, C₃-C₁₀-cycloalkyl, or C₁-C₄-haloalkyl.
17. (new) The phenethylamide of the formula II' as claimed in claim 9, wherein
R¹ is halogen; or

060801

- 9 -

Serial No. 10/509,112

GRAMMENOS et al.

PF 53376

R⁴ is C₁-haloalkyl; or

R³ is C₃-C₄-alkenyl or an OH protecting group.

18. (new) The phenethylacrylamide of the formula I' as claimed in claim 10, wherein R¹ is C₁-C₄-alkyl, C₃-C₁₀-cycloalkyl, or C₁-C₄-haloalkyl.

060801

- 10 -